CamriVox

UTA-151

User Manual

Introduction

Congratulations on becoming an owner of a Camrivox UTA-151. Camrivox are confident that you will be pleased with the features and benefits it offers to you.

In addition to enabling low cost Internet phone calls, the UTA-151 is packed with additional features to offer a richer experience. For example, CTI (Computer Telephony Integration) features allow you to use your telephone in conjunction with your PC. You can synchronise your Outlook address book with the UTA-151 so that you can telephone people by spelling out their name rather than dialling their number. Furthermore, features such as Hop on / Hop off allow you to take advantage of VoIP from other phones such as mobile phones.

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1. Safety information

1.1. Safety advice

For your safety, please adhere to the following instructions:

- Do not obstruct the ventilation holes of the UTA-151, or place anything on top of it.
- Place the UTA-151 on top of a smooth flat surface such as a table top.
- Do not open the UTA-151, this could expose you to dangerous voltages.
- Only use the provided power supply.
- If the device or power supply appear damaged, do not use them and contact your supplier for a replacement.
- Keep your unit dry, out of direct sunlight, and away from sources of heat.
- The telephony ports on the UTA-151 can carry dangerous voltages, do not touch or insert foreign objects into the connections, and only connect approved telephony devices.

1.2. Emergency calling

While the Camrivox UTA-151 contains features designed to facilitate emergency calling, Camrivox does not guarantee it is suitable for this purpose and is not liable for any failure to contact the emergency services. Users should ensure they have a secondary system with which they can make emergency calls.

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2. Installation

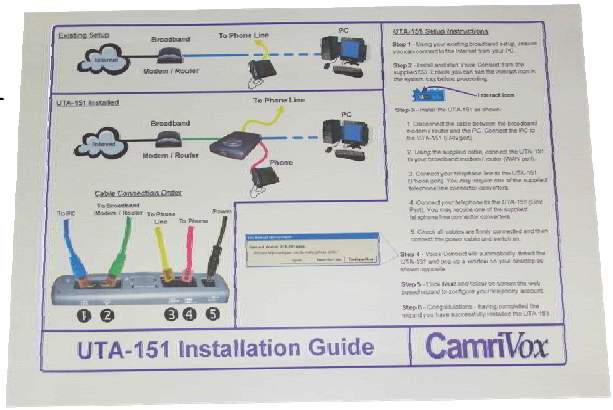
2.1. What is included in the package?

Your UTA-151 packaging includes the following:

1. Single page installation sheet
2. UTA-151 Analogue Telephone Adaptor
3. Power Supply
4. PC Installation CD
5. Phone adaptor for converting RJ11 connector to country specific connector
6. Cable for connecting UTA-151 to telephone wall socket
7. Ethernet cable

If any components are missing, please contact your supplier.

1



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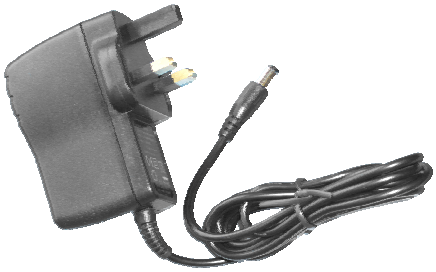

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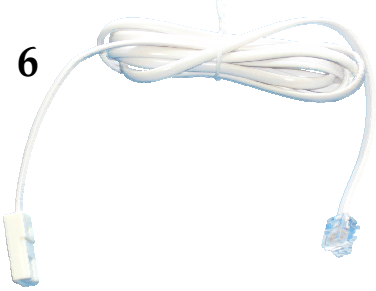

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2.2. Voice Connect PC Application

2.2.1. Installation

Before using the UTA-151 you should install the Camrivox *Voice Connect* application on your PC. This application helps to configure the UTA-151 and after installation offers Computer Telephony Integration features (see section 4 for further information on CTI).

The *Voice Connect* application runs on any Microsoft Windows PC running the Microsoft .NET 2.0 framework. Most modern PCs already come with .NET pre-installed but if missing, it can be installed automatically during the installation process. To use the CamriVox UTA-151 with operating systems other than Windows please refer to section 2.3.

To install the CamriVox *Voice Connect* application, simply insert the installation CD into your PC's CDROM drive. The installer should automatically run. If this is not the case, browse the files on your computer in Windows Explorer, double-click on the CDROM drive, and run the `setup.bat` program manually.

When the *Voice Connect* installer runs, a window should appear to guide you through the installation process. The installer comes with sensible default settings, so in most cases repeatedly clicking on next should be sufficient. However, you may wish to override the default settings if you choose.

After installation the *Voice Connect* application should appear in the bottom right of your Windows desktop in the Windows tray icon area as follows:

2.2.2. Uninstall/removal

There are two ways to uninstall the *Voice Connect* application. You can insert the installation CD a second time and a window will appear asking if you wish to remove the application. Alternatively, the *Voice Connect* application can be removed by going to the Windows Control Panel, going to Add/Remove programs and them removing *Voice Connect*.

2.3. Operating systems other than Windows

CamriVox products can be used on systems other than Windows, for example Linux or Apple Macs. While the *Voice Connect* PC application will not be available, it is still possible to access and configured the UTA-151 through a web browser.

To access the UTA-151 in this way you must first launch a Web Browser such as Firefox. Now the URL of the UTA-151 must be entered. To discover the management URL pick up the telephone attached to the UTA-151. After the message which starts "Entering failsafe mode because Internet telephony is unconfigured…." press '#' on the telephone. An audio message will be played describing the URL that must be entered. Enter this URL into your web browser and once at the management web page, follow the steps in section 2.5 for configuration instructions.

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2.4. Connecting the UTA-151 for the first time

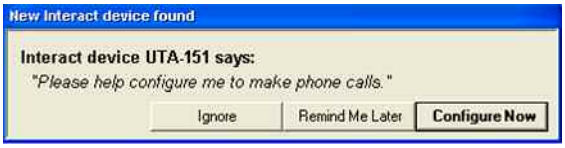
The UTA-151 should be connected as shown in the single page Installation Sheet provided in the packaging. Please refer to these instructions for help on cabling.

The Installation Sheet shows the UTA-151 connected inline with a PC, and this is often the easiest way to install the UTA-151. By taking the existing Ethernet cable going to the PC and using it for the UTA-151, you can be more certain that the Internet connection is valid.

However, if it is not convenient for you to install the UTA-151 in this network orientation, you are free to connect it in any manner as long as the PC and the UTA-151 are on the same local network.

Once the cables are connected you can use the telephone and UTA 151 to make normal "PSTN" calls over your land line. But in order to take advantage of VoIP you must configure the UTA-151.

Once the UTA-151 and PC are on the same network and powered, a window should appear from the *Voice Connect* application on the PC asking if you wish to configure the UTA-151. Select the option to **Configure Now** and a Web Browser will be launched to configure the unit:



2.5. Configuration instructions

Step 1 – Select your country. The UTA-151 will automatically detect which country you are in, but if you wish you can override this by choosing an alternative country from the pull-down menu. Once you are happy with your country selection, select "next".

If your server provider is not automatically selected – follow **step 2** else move to **step 3**.

Step 2 – Select service provider. Select your service provider from the drop down list provided. If you service provider is not shown you can enter details for your service provider by clicking on the manual settings link.

Step 3 – Enter user name and password. You must now configure your VoIP account settings so that you can make voice calls over the Internet. Your supplier should have provided you with a user name and password, either by email or by post. Enter these details along with (optionally) your own name into the web page, then select "next".

The above is the only configuration required in order to use your UTA-151. Subsequent telephone calls will now default to using VoIP instead of PSTN (land line). You can confirm that the VoIP connection is working by checking that the VoIP LED indicator has stopped flashing or by returning to the main menu page to see a Green tick and the message "UTA-151 is connected and working properly, for more information click here." in the messages area.

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2.6. Buttons and LED indicators

Your UTA-151 has a number of buttons and LED indicators. The function of each indicator is described in the table below:

Indicator	*Description*
	Answer phone / voicemail button and LED indicator. Pressing this button will direct all incoming calls (both land line and VoIP) to your VoIP voicemail. This can be useful on occasions when you do not wish to be disturbed, or when you are away but expecting an important call and wish to check the message remotely (through your VoIP providers voicemail system). Directing calls to voicemail using the voicemail button will divert calls immediately, ie. the telephone will not ring at all. See section 3.5.4 for additional information on voicemail configuration.
	Call divert button and LED indicator. Pressing this button will direct incoming land line calls to a specified number of your choice. An example of when this can be useful is on occasions where you are away but expecting an important call and want it directed to your mobile phone. Pressing the call divert button will direct calls to the specified number immediately, the phone will not ring. See section 3.5.4 for additional information on call diverting.
Line	This indicator is used to indicate when a call is being made over PSTN (land line) and not VoIP. For incoming calls this may not be of significance but for outgoing calls it is useful to know how the call is being made, and therefore how expensive it is.
VoIP	This indicator is used to indicate when a call is being made over VoIP. Again, for incoming calls this may not be of significance but for outgoing calls it is useful to know how the call is being made, and therefore how expensive it is. The VoIP indicator flashes when the unit is to idle to signify that there is a problem with VoIP, and the unit will likely be in failsafe mode. See section 3.3 for further information.

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3. Phone Calls

3.1. Receiving calls

Receiving phone calls on the UTA-151 is extremely straightforward, but there are some features to note:

- The LINE and VoIP indicators (see section 2.6) will flash to indicate which line the incoming call is received on.
- If your telephone is Caller-ID capable the number (and possibly name) of the caller will be displayed on your telephone. Please see section 4.3 for instructions on synchronising your UTA with your Microsoft Outlook address book. If the number of the incoming call is in your address book, the UTA-151 will automatically convert the number to name in your address book.
- If the Call Divert or Voicemail buttons have been pressed then the incoming call will be redirected immediately and the telephone will not ring (see section 3.5.4 for further details).
- If Call Divert or Voicemail is active, but the buttons have *not* been pressed, then the call will be redirected, but after a user specified number of rings (see section 3.5.4 for further details).
- If a call is received in the middle of another call, a periodic call-waiting beep will be played in the existing call. You can switch between the two calls by pressing the hook button or the Recall button on your telephone. Please see section 3.4 for more information on this and other advanced call functions.

3.2. Making outgoing calls

3.2.1. Making a VoIP call

By default, calls will be made using VoIP; however this can be overridden by pressing the telephone hook button or the Recall button (see section 3.2.2 for more information).

When making a VoIP call the following points should be noted:

- To dial another VoIP user, simply dial their number.
- To dial a land line number, dial the number as normal, but always remember to prefix it with the area code (even if the number is a local number).
- To dial a VoIP user using a SIP URI, you must use the UTA-151's address book feature (see section 3.5.3) as a URI cannot be entered using your phone's numeric keypad. A SIP URI is where another person has given you their phone number in the form *sip:person@organisation.com*.
- By default the UTA-151 will give you 4 seconds to complete dialling a number after the last digit has been pressed. However, if you dial the number quickly and want to be connected immediately you can dial '#' at the end of the number to tell your UTA-151 no more digits will follow (and not to wait 4 seconds).

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3.2.2. Making a PSTN call

By default, outgoing calls are made over VoIP. But in some situations you may prefer for the call to be made over your land line. For example, to dial the emergency services. To force a call to go out over your land line instead of VoIP, do the following:

1. Lift your telephone receiver.
2. The dial-tone you hear will be your VoIP dial-tone.
3. Now press the Recall button on your telephone to indicate you wish to make a land line call. See section 3.4.1 on how to use the Recall button.
4. After pressing Recall you will hear another dial-tone that is probably very similar to the dial-tone heard in step (2), but the new dial-tone is from your land-line.
5. Any number you dial at this second dial-tone will be made over your land-line and not over VoIP.
6. To return back to normal, so that calls are made using VoIP, simply hang-up the phone at the end of your land line call.

- Remember you can use the LED indicators (described in section 2.6) to check whether or not your call is made over VoIP or your land line.

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3.3. Failsafe mode

In some situations it is not possible to make VoIP calls, for example, if your Internet connection goes down, or if there is a power cut. In such situations your UTA-151 will enter a failsafe mode. The purpose of this mode is to enable your telephone to make phone calls, albeit over your land line rather than VoIP, even in the event of problems.

If ever failsafe mode is entered you will hear a recorded diagnostic message describing the problem (except in the power failure case). This should help you to resolve the problem. See section 6.3 for more information on these diagnostic messages.

3.4. Advanced Telephone Functions

One of the advantages of VoIP is that it offers advanced telephony functions such as:

- Putting a call on hold.
- Call waiting
- Making two simultaneous calls.
- Transferring calls.
- Do not disturb.
- Call return.

3.4.1. Recall / Hook-flash

To access certain VoIP functions it is necessary to perform a Recall or Hook-flash. The majority of phones have a dedicated button for this purpose. The button is often labelled "Recall" or sometimes just "R" (note: not to be confused with Redial which is a different button to Recall).

For phones that do not have a Recall button it is possible to simulate it by doing what is known as a "Hook-flash". As its name suggests a Hook-flash is performed by briefly tapping the button that is pressed when you replace the receiver to hang-up. In effect when doing a Hook-flash, although you tap the button with you hand, you momentarily hang-up the call, instantly lifting the receiver as soon as it is put down.

3.4.2. Putting a call on hold

There are two common situations where it is convenient to place a call on hold:

1. To answer a second incoming call that comes in during an existing call (known as call-waiting).
2. To dial a second person in the middle of an existing call.

In both cases the current caller is placed on hold by pressing the Recall button described in section 3.4.1.

After the current caller is placed on hold, you will either be connected to the incoming call (case 1 above), or you will be presented with a VoIP dial-tone enabling a second person to be dialled (case 2 above).

As described in section 3.1, you are informed of a second incoming call (call-waiting) by a series of periodic beeps during the existing call.

You can switch back to the person on hold, or repeatedly go between two callers by pressing the Recall button multiple times.

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3.4.3. Transferring calls

It is possible to transfer an incoming call to another number. You can do this in two ways:

1. Attended transfer – where you speak to the recipient of the transferred call before transferring the incoming call to them.
2. Blind transfer – where you transfer a call immediately without speaking to the recipient of the call (the transferee).

The process of performing an attended transfer is very similar to placing a call on hold to dial two people as described in section 3.4.2. The process would likely be as follows:

1. The phone rings, and you pick-up to speak to the new caller.
2. You decide that they need to be transferred to another person.
3. You place the caller on hold by pressing the Recall button (described in section 3.4.2).
4. You are presented with a dial-tone enabling you to call the person to whom you wish to transfer the call (the transferee).
5. You dial the number of the transferee and wait for them to answer the call.
6. After speaking to the transferee and confirming they wish to receive the transferred call, you simply hang-up your phone to connect the other two parties.

A blind transfer is similar to an attended transfer but works as follows (steps 5 and 6 are different from the steps above):

1. The phone rings, and you pick-up to speak to the new caller.
2. You decide that they need to be transferred to another person.
3. You place the caller on hold by pressing the Recall button (described in section 3.4.2).
4. You are presented with a dial-tone enabling you to call the person to whom you wish to transfer the call (the transferee).
5. You dial the number of the transferee. However, before dialling the number you prefix it with ∗90 and dial '#' at the end. So for example, to perform a blind transfer to the number 123456, you would dial ∗90123456#.
6. Before speaking to the transferee (while the phone is still ringing) simply hang-up your phone to connect the other two parties. The incoming caller will be connected while the phone is ringing, and will be the first person to speak to the transferee.

Note that for billing purposes you may be billed for the call to the transferred number, even though you do not have a conversation with them.

3.4.4. Do not disturb

The do not disturb feature can be enabled in two ways:

1. Pressing the voicemail button as described in section 2.6.
2. Dialling ∗20, and then hang up.

You can tell if do not disturb is enabled by examining the voicemail LED indicator, or by listening to the dial-tone. A special "stuttered" dial-tone is played if do not disturb is enabled. The preferred and easiest method for enabling do not disturb is method 1 above. Method 2 differs in that if do not disturb is enabled by dialling ∗20, then only VoIP calls will not disturb you – incoming land line calls will still ring the phone.

To cancel do not disturb, do one of the following:

1. Press the voicemail button as described in section 2.6.
2. Dial ∗80, and then hang up.

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3.4.5. Call return

Call return enables you to ring back the VoIP caller who most recently called you. It is used by simply dialling ∗69. It saves you the time of having to dial the full number to return the call.

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3.5. Management Web Pages

The primary method for managing and configuring your UTA-151 is through a Web Browser. To go to the web page of your UTA-151 you must double-click on the *Voice Connect* icon at the bottom right corner of your Windows desktop. See section 2.2 for information on the *Voice Connect* application.

Shortly after double-clicking on *Voice Connect* you will be taken to the UTA-151 home page. The web page is divided into two areas. At the top of the page is a "messages" area where important status information is displayed. Examples of status messages appearing in this area are:

- Information on whether or not your VoIP connection is operational. If it is not working, a link is provided to help diagnose any problems.
- If a new software upgrade is available for your UTA-151 a link will be provided to install it.

Under the message area of the web page is the main configuration page; the following sections describe the options on this page.

3.5.1. Accounts

In this section you can reconfigure your VoIP account settings. You may wish to do this for several reasons:

1. To correct a mistake in your original configuration.
2. To switch to an alternative VoIP account.
3. To update your name but leave your other account settings unchanged.

3.5.2. Call history

In the call history subsection of the UTA-151 web pages you can view recently received calls, and recently dialled numbers. Viewing recently received calls is useful if you have been away from your phone for a while and wish to check if you have missed any calls.

For both received and dialled calls you can dial the number to return the call by clicking the number on the web page. Your phone will briefly ring to confirm the mouse click. At this point you can lift the phone receiver and the number will be dialled automatically for you.

3.5.3. Address book

Your UTA-151 has a built-in address book, and this is accessed through the address book web page from the main UTA-151 web page. This has several purposes:

1. To look up the name of incoming calls, and present the name instead of number.
2. Allowing you to speed dial numbers from the address book.
3. Allowing you to dial SIP URIs.

You can add entries to the address book using the web interface, but you can also import numbers from your Microsoft Outlook contacts on your PC, see section 4.3 for further details.

Once a name and number are in the address book you can also use IVR to dial the number, see section 5.1 for further details.

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3.5.4. Call management

The call management section of the UTA-151 web pages allow you to tailor what happens to incoming land line calls. This is closely tied to the buttons on the UTA-151 as described in section 2.6.

A number of different actions are possible for an incoming call:

1. Ring the phone as normal; eventually ringing-out to voicemail if the call is not answered in time.
2. Allow the phone to ring a specified number of times, and then do one of the following:

    - Redirect to voicemail
    - Divert to a specified number
    - Enter hop on/off mode (if the incoming call was over a land line)

Note that only one of the above (voicemail, divert, hop on/off) can be used at once.

Hop on/off

This useful feature allows you to take advantage of VoIP from other phones such as a mobile phone. The basic idea is that you can use the UTA-151 to bridge between a land line and VoIP.

So for example, you wish to make an international call from you mobile phone. This call would be much cheaper using VoIP but your mobile phone cannot do VoIP. The solution is to phone up the UTA-151 from your mobile, and then get the UTA-151 to connect you to the international number over VoIP. You are billed on your mobile phone for a call to your UTA-151, and billed for the international call on your VoIP account. But the combined cost should be much cheaper than making a single international call on your mobile; especially if the VoIP call is to another VoIP user and completely free. This example uses a mobile phone, but the hop on/off feature is useful from many different types of phone.

Before using hop on/off you must select the following on the call management web page:

- Enable unanswered call actions.
- Enter the number of rings after which you wish the call to be answered automatically.
- Select hop on/off.
- Enter a valid pin number.

Now if a call is received from a land line (not VoIP) the UTA-151 will answer the call automatically after the specified number of rings. A voice prompt will ask you to enter your pin number, specified by you on the management web page, preventing unauthorised access. After entering the pin number successfully, you will be presented with a VoIP dial-tone. Now you can dial the number you really want and make a call over VoIP from your mobile phone.

Note, on most mobile phones it is possible to fully automate the process above and store the full number sequence (including pin number) as one number in the mobile phone's address book. This makes it equally convenient to dial the number using hop on/off as it would be dialling it direct from the mobile phone. If you need to insert a pause in the dialling most mobile phones allow you to put a special character in the number sequence to cause a delay. Please refer to your mobile phone documentation for further details.

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Call divert

To enable call divert you must select the following on the call management web page:

- Enter the phone number to which calls should be diverted.
- Enable unanswered call actions.
- Enter the number of rings after which you wish the call to be answered automatically.
- Select divert to call divert number.

Now if a call is received, after waiting the specified number of rings, the UTA-151 will divert the call to the specified number. Note that the VoIP account will be billed for the diverted part of the call.

Voicemail

To enable redirect to voicemail you must select the following on the call management web page:

- Enable unanswered call actions.
- Enter the number of rings after which you wish the call to be answered automatically.
- Select divert to voicemail.

Now if a call is received, after waiting the specified number of rings, the UTA-151 will divert the call to voicemail. Conveniently the same voicemail account can be used for both your VoIP line and your land line.

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4. Computer Telephony Integration (CTI)

After installing the *Voice Connect* application described in section 2.2 you are able to share telephony functions between your PC and UTA-151.

4.1. Click-to-dial

This feature allows you to dial any phone number or SIP URI that is on your Windows desktop. For example, you could have received the phone number in an email or found it on a web page.

Simply highlight the phone number on the screen, and copy it to the clipboard (usually by pressing Ctrl-C, or right-clicking and choosing Copy from the menu). After copying the number to be dialled, right-click on the *Voice Connect* icon in the bottom right of your desktop. A menu will appear with an option allowing you to dial the number. After clicking on the option your phone will give a brief confirmation ring. At this point lift the phone receiver and the number will be dialled automatically for you.

4.2. Networks with more than one UTA-151 unit

It is possible to have more than one UTA-151 on your network at once. This is often the case if you have a separate unit for the home office, one for the main home number, and perhaps another for the children.

The *Voice Connect* application provides a way of going to the individual management web pages for each of the units. To do this, right-click on the *Voice Connect* icon in the bottom right of your desktop. A menu will appear allowing you to select the "Show Peers" option. A "Peer Devices" window will open showing all units on the network. From here you can right-click on a unit and choose the *configure* option from the menu. This will launch the web page for that unit.

4.3. Outlook synchronisation

As mentioned in section 3.5.3 your UTA-151 has a built-in address book. It is possible to add entries to this address book manually using the configuration web pages, but often a quicker method is to import your existing contacts from Microsoft Outlook.

To import contacts from Outlook go to the "Peer Devices" window as described in section 4.2. Then right-click on the unit to which you wish to send the address book. From the menu select "Synchronise with Outlook". A progress window will appear showing you the progress of the import, after which your UTA-151 will hold a copy of your Outlook address book.

This copy of your address book on your UTA-151 is independent of your PC. You can turn off your PC and the UTA-151 will still be able to access all address book functions.

5. Interactive Voice Response (IVR)

IVR is the term used to describe voice menus from which options are chosen using the numbers on your telephone. This allows extra functions to be accessed on your UTA-151.

5.1. Dial by name

This function is closely tied to the address book mentioned in sections 3.5.3 and 4.3. It allows you to dial a number from your address book by spelling out the name. It works in a similar way to predictive text when sending text messages on a mobile phone. You spell out the

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name to dial until you have spelt out enough characters that a unique match can be made from your address book.

To access the dial by name option, dial # after lifting the receiver. A voice prompt will ask you to spell out the name to dial on your phone number pad. Keep spelling out characters until a match has been made.

Once a match has been made, stop spelling out characters. At this point, if the address book only has one number for the name, the number will be dialled. However, if several alternative numbers are available for Work, Home or Mobile, you will be prompted to press 9 (**W**ork), 4 (**H**ome) or 6 (**M**obile) respectively to choose which number to dial.

5.2. Management URL read-out

Normally it is best to get to the management web page of your UTA-151 using the *Voice Connect* application. However, you can launch the web page manually yourself without running the *Voice Connect* application. This process uses the IVR menu and is described in section 2.3.

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6. Troubleshooting

6.1. Resetting to factory defaults

Occasionally it is useful to be able to restore your UTA-151 back to its factory default state. This will erase all your settings and address book entries, so must only be done if you are absolutely sure it is necessary.

To reset your UTA-151 to its factory default state select the “UTA-151” option from the main management web page, and then select “Reset Settings”.

6.2. Software upgrade

From time to time new software upgrades will become available for your UTA-151. As mentioned in section 3.5 the main management web page has a “messages” area which will inform you of new updates. But you can also check manually by going to the "UTA-151" option from the main management web page, and then select the “Firmware update” link.

Please note that during firmware update you must not remove power from the UTA-151, or damage could occur. You should always use the management web pages to reboot your unit – do not remove the power cable. When in doubt, wait several minutes to let the unit go idle before removing the power.

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6.3. Diagnostic messages

If there is a problem with your UTA-151, a diagnostic message will be played when you try to make a call through the phone handset. The table below lists common messages and the likely remedy for the problem:

Message	Diagnosis and Remedy
…Ethernet cable unplugged.	You have not plugged in an Ethernet cable to the UTA-151 for it to connect to the Internet. If the UTA end of the cable is plugged in, check the other end of the cable, is the other end powered-up? Does the Ethernet connection LED light up next to the cable? If not, check your cable.
…there is no Internet connection available.	The cables are plugged into your UTA correctly but it is not able to connect to your broadband access device such as your DSL modem or cable modem. Check your modem is powered and configured to grant the UTA access.
…network settings are being determined.	The cables are plugged into your UTA correctly but it not able to automatically configure its network settings. Check that the DHCP server is correctly configured in your modem. If you have a PC connected to the LAN port of the UTA, check that it can access the Internet.
…Internet telephony is unconfigured.	The cables are plugged into your UTA correctly, and it is able to connect to your modem, but you have not configured your VoIP account settings. Please see sections 2.4 and 2.5 for instructions on how to configure your UTA-151. You will not be able to make VoIP call until a user name and password has been entered.
…Internet telephony user name or password is incorrect.	The cables are plugged into your UTA correctly, and it is able to connect to your modem, and you have configured it. However, there is a problem with the configuration and you have likely made a mistake in the user name or password. See sections 3.5 and 3.5.1 for further information on how to re-enter your user name and password.

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Appendix A – Hardware Specification

Interfaces:

WAN interface	Ethernet (10/100)
LAN interface	Ethernet (10/100)
FXO port	PSTN access including PSTN failsafe
FXS port	Attach telephone handset.
LEDs	Voicemail alert, email alert, VoIP line, PSTN line, Call-divert, WAN activity, LAN activity, Power
Buttons	Call Divert, Do not Disturb/Voicemail Access

Management:

Configuration, diagnostics, and firmware upgrade locally or by operator.
Telnet or HTTP/Web.
Through telephone handset.
Password controlled.

Quality of Service (QoS):

Type of Service (ToS)
Unique Amrivox QoS features to prioritise voice traffic over LAN data traffic.
Power-On Self Test (POST) and diagnostics.

Voice algorithms and protocols:

SIP, RTP, SDP
VAD, CNG, G.168 echo canceller
Packet Loss Compensator
G.711, G.726, G.729
Adaptive Jitter Buffer minimises voice latency
DTMF detection, generation, and relay
FAX and modem support

PBX features:

Receive PSTN calls and VoIP calls at the same time
Call hold, transfer, blocking, waiting, and forwarding
Distinctive ring-tones, based on Caller ID
Call statistics
Caller ID
Dial-by-name IVR

IP features:

DHCP client, DNS client
ICMP, TCP/UDP/IP
NAT traversal and STUN
SNTP
HTTP
RIP and RIPv2

Product Physical Data:

Measurements: 160 x 120 x 30 mm
Weight: 250grams (9 ounces)

Environmental:

5C - 40C operating temperature
5% - 90% non-condensing humidity

Power Supply (external):

Input 100 - 240 VAC; 50/60 Hz; 0.5 A
Output 5.0 VDC; 1.5 A

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